



## Complete Summary

### TITLE

Osteoarthritis: percentage of patients with a diagnosis of symptomatic osteoarthritis of the knee or hip for greater than 3 months who receive or who are recommended patient education.

### SOURCE(S)

MacLean CH, Saag KG, Solomon DH, Morton SC, Sampsel S, Klippel JH. Measuring quality in arthritis care: methods for developing the Arthritis Foundation's quality indicator set. *Arthritis Rheum* 2004 Apr 15;51(2):193-202. [PubMed](#)

Pencharz JN, MacLean CH. Measuring quality in arthritis care: the Arthritis Foundation's Quality Indicator set for osteoarthritis. *Arthritis Rheum* 2004 Aug 15;51(4):538-48. [108 references] [PubMed](#)

### Measure Domain

#### PRIMARY MEASURE DOMAIN

Process

The validity of measures depends on how they are built. By examining the key building blocks of a measure, you can assess its validity for your purpose. For more information, visit the [Measure Validity](#) page.

#### SECONDARY MEASURE DOMAIN

Does not apply to this measure

### Brief Abstract

#### DESCRIPTION

This measure is used to assess the percentage of patients with a diagnosis of symptomatic osteoarthritis of the knee or hip for greater than 3 months who receive or who are recommended education about the natural history, treatment, and self-management of osteoarthritis.

#### RATIONALE

Education will improve patient knowledge about the disease, its treatments, self-efficacy, pain, and functional ability.

Promotion of arthritis self-management through weight counseling, physical activity counseling and arthritis education can reduce pain, improve function and quality of life and delay disability among persons with arthritis.

An arthritis management objective targeting arthritis patient education was added to Healthy People 2010: Arthritis Education (objective 2-8) -- Increase the proportion of persons with doctor-diagnosed arthritis who have had effective, evidence-based arthritis education as an integral part of the management of their condition.

## **PRIMARY CLINICAL COMPONENT**

Osteoarthritis; patient education

## **DENOMINATOR DESCRIPTION**

Patients with a diagnosis of symptomatic osteoarthritis of the knee or hip for greater than 3 months

## **NUMERATOR DESCRIPTION**

Patients who receive or who are recommended education about the natural history, treatment, and self-management of osteoarthritis

## **Evidence Supporting the Measure**

### **EVIDENCE SUPPORTING THE CRITERION OF QUALITY**

- A clinical practice guideline or other peer-reviewed synthesis of the clinical evidence
- A formal consensus procedure involving experts in relevant clinical, methodological, and organizational sciences
- A systematic review of the clinical literature
- One or more research studies published in a National Library of Medicine (NLM) indexed, peer-reviewed journal

## **Evidence Supporting Need for the Measure**

### **NEED FOR THE MEASURE**

Unspecified

## **State of Use of the Measure**

### **STATE OF USE**

Current routine use

### **CURRENT USE**

Internal quality improvement

### Application of Measure in its Current Use

#### **CARE SETTING**

Ambulatory Care  
Physician Group Practices/Clinics

#### **PROFESSIONALS RESPONSIBLE FOR HEALTH CARE**

Advanced Practice Nurses  
Nurses  
Occupational Therapists  
Physical Therapists  
Physician Assistants  
Physicians

#### **LOWEST LEVEL OF HEALTH CARE DELIVERY ADDRESSED**

Individual Clinicians

#### **TARGET POPULATION AGE**

Unspecified

#### **TARGET POPULATION GENDER**

Either male or female

#### **STRATIFICATION BY VULNERABLE POPULATIONS**

Unspecified

### Characteristics of the Primary Clinical Component

#### **INCIDENCE/PREVALENCE**

Osteoarthritis (OA) is the most common form of arthritis. It is a degenerative joint disease that affects about 12% of the general population, with prevalence increasing with age. Between 60% and 70% of individuals aged 65 years or older show radiographic changes consistent with OA, and about half of these meet classification criteria for the disease by reporting joint pain or stiffness.

#### **EVIDENCE FOR INCIDENCE/PREVALENCE**

Hawker G. Epidemiology of arthritis and osteoporosis. 1st ed. Toronto (ON): Institute for Clinical Evaluative Sciences (ICES); 1998.

Lawrence RC, Helmick CG, Arnett FC, Deyo RA, Felson DT, Giannini EH, Heyse SP, Hirsch R, Hochberg MC, Hunder GG, Liang MH, Pillemer SR, Steen VD, Wolfe F. Estimates of the prevalence of arthritis and selected musculoskeletal disorders in the United States. *Arthritis Rheum* 1998 May;41(5):778-99. [PubMed](#)

## **ASSOCIATION WITH VULNERABLE POPULATIONS**

See "Incidence/Prevalence" field.

## **BURDEN OF ILLNESS**

Pain and disability are the most common consequences of osteoarthritis (OA) joint damage.

## **EVIDENCE FOR BURDEN OF ILLNESS**

Felson DT, Lawrence RC, Dieppe PA, Hirsch R, Helmick CG, Jordan JM, Kington RS, Lane NE, Nevitt MC, Zhang Y, Sowers M, McAlindon T, Spector TD, Poole AR, Yanovski SZ, Ateshian G, Sharma L, Buckwalter JA, Brandt KD, Fries JF. Osteoarthritis: new insights. Part 1: the disease and its risk factors. *Ann Intern Med* 2000 Oct 17;133(8):635-46. [120 references] [PubMed](#)

## **UTILIZATION**

Unspecified

## **COSTS**

Unspecified

## **Institute of Medicine National Healthcare Quality Report Categories**

### **IOM CARE NEED**

Living with Illness

### **IOM DOMAIN**

Effectiveness

## **Data Collection for the Measure**

### **CASE FINDING**

Users of care only

### **DESCRIPTION OF CASE FINDING**

Patients with a diagnosis of symptomatic osteoarthritis of the knee or hip for greater than 3 months

#### **DENOMINATOR SAMPLING FRAME**

Patients associated with provider

#### **DENOMINATOR INCLUSIONS/EXCLUSIONS**

##### **Inclusions**

Patients with a diagnosis of symptomatic osteoarthritis of the knee or hip for greater than 3 months

##### **Exclusions**

Unspecified

#### **RELATIONSHIP OF DENOMINATOR TO NUMERATOR**

All cases in the denominator are equally eligible to appear in the numerator

#### **DENOMINATOR (INDEX) EVENT**

Clinical Condition

#### **DENOMINATOR TIME WINDOW**

Time window precedes index event

#### **NUMERATOR INCLUSIONS/EXCLUSIONS**

##### **Inclusions**

Patients who receive or who are recommended education about the natural history, treatment, and self-management of osteoarthritis

##### **Exclusions**

Unspecified

#### **MEASURE RESULTS UNDER CONTROL OF HEALTH CARE PROFESSIONALS, ORGANIZATIONS AND/OR POLICYMAKERS**

The measure results are somewhat or substantially under the control of the health care professionals, organizations and/or policymakers to whom the measure applies.

#### **NUMERATOR TIME WINDOW**

Episode of care

#### **DATA SOURCE**

Administrative and medical records data  
Administrative and provider data  
Administrative data and patient survey  
Medical record  
Patient survey

## **LEVEL OF DETERMINATION OF QUALITY**

Individual Case

## **PRE-EXISTING INSTRUMENT USED**

Unspecified

## **Computation of the Measure**

## **SCORING**

Rate

## **INTERPRETATION OF SCORE**

Better quality is associated with a higher score

## **ALLOWANCE FOR PATIENT FACTORS**

Unspecified

## **STANDARD OF COMPARISON**

Internal time comparison

## **Evaluation of Measure Properties**

## **EXTENT OF MEASURE TESTING**

A multidisciplinary expert panel comprised of nationally recognized experts discussed and rated the validity of each of the proposed measures based on the evidence and their expert opinion using a modification of the RAND/UCLA Appropriateness Method.

## **EVIDENCE FOR RELIABILITY/VALIDITY TESTING**

MacLean CH, Saag KG, Solomon DH, Morton SC, Sampsel S, Klippel JH. Measuring quality in arthritis care: methods for developing the Arthritis Foundation's quality indicator set. Arthritis Rheum 2004 Apr 15;51(2):193-202. [PubMed](#)

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## Identifying Information

### ORIGINAL TITLE

Quality indicator 4. Patient education.

### MEASURE COLLECTION

[The Arthritis Foundation's Quality Indicator Project](#)

### MEASURE SET NAME

[The Arthritis Foundation's Quality Indicator Set for Osteoarthritis](#)

### SUBMITTER

Arthritis Foundation

### DEVELOPER

Arthritis Foundation  
RAND Health

### ADAPTATION

Measure was not adapted from another source.

### RELEASE DATE

2004 Aug

### MEASURE STATUS

This is the current release of the measure.

### SOURCE(S)

MacLean CH, Saag KG, Solomon DH, Morton SC, Sampsel S, Klippel JH. Measuring quality in arthritis care: methods for developing the Arthritis Foundation's quality indicator set. Arthritis Rheum 2004 Apr 15;51(2):193-202. [PubMed](#)

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## **MEASURE AVAILABILITY**

The individual measure, "Quality Indicator 4. Patient Education," is published in "Measuring Quality in Arthritis Care: The Arthritis Foundation's Quality Indicator Set for Osteoarthritis."

For more information contact:  
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Web site: [www.arthritis.org](http://www.arthritis.org)

OR

RAND Health  
1776 Main Street  
P.O. Box 2138  
Santa Monica, CA 90407-2138  
Telephone: (310) 393-0411, ext. 7775  
Web site: [www.rand.org/health](http://www.rand.org/health)  
E-mail: [RAND\\_Health@rand.org](mailto:RAND_Health@rand.org)

## **NQMC STATUS**

This NQMC summary was completed by ECRI on August 24, 2006. The information was verified by the measure developer on November 6, 2006.

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Date Modified: 11/3/2008

